

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 46852.WO01/JMD	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2004/003822	International filing date (day/month/year) 04/11/2004	(Earliest) Priority Date (day/month/year) 06/11/2003
Applicant ADDEX PHARMACEUTICALS SA		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/003822

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D211/18 C07D211/60 C07D401/04 C07D413/04 C07D413/14
 C07D417/14 A61K31/443 A61K31/4436 A61K31/4439 A61P25/28
 A61P25/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/25768 A (TREGA BIOSCIENCES INC.) 11 May 2000 (2000-05-11) <i>anti-infective</i> Page 158, paragraph 2; page 161, compound 4098; page 162, compound 4475; page 164, compound 8080; page 165, compounds 4491 and 4613; page 166, compounds 4478 and 2300; page 168, compound 8093; claims	1-6, 8-11, 16, 20
X	WO 01/54498 A (AKKADIX CORPORATION) 2 August 2001 (2001-08-02) claims; figures 6, 24	1, 2, 8, 16
X	US 3 991 064 A (BROWN ET. AL.) 9 November 1976 (1976-11-09) column 2, compound V; example 2	1, 2, 8, 16
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

14 March 2005

Date of mailing of the international search report

30/03/2005

Name and mailing address of the ISA

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/149049 A1 (ARKIN ET. AL) 7 August 2003 (2003-08-07) claims; example 75 -----	1,2,8, 16,20
A	B. R. BAKER ET. AL: "An Antimalarial Alkaloid From Hydrangea. v. Some 3-(beta-Keto-sec-aminoalkyl) -4-Quinazolines" JOURNAL OF ORGANIC CHEMISTRY, vol. 17, 1952, pages 52-57, XP002321098 table 1, last entry -----	1,8
A	WO 99/02497 A (NOVARTIS AG) 21 January 1999 (1999-01-21) page 1 - page 2; claims; examples -----	1-32
P,A	B. EASTMAN ET. AL.: "Expediated SAR Study of an mGluR5 antagonists. Generation of a Focused Library Using a Solution-Phase Suzuki Coupling Methodology." BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, vol. 14, 2004, pages 5485-8, XP002321099 tables 1,2 -----	1-32
P,A	WO 2004/087048 A (MERCK & CO) 14 October 2004 (2004-10-14) page 1 - page 2; claims; examples -----	1-32

INTERNATIONAL SEARCH REPORT

International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 21-30 (part)
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 21-30 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/003822

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0025768	A	11-05-2000	AU 1455500 A EP 1126833 A2 WO 0025768 A1	22-05-2000 29-08-2001 11-05-2000
WO 0154498	A	02-08-2001	AU 2977901 A AU 3120201 A AU 3304401 A AU 3307801 A AU 3307901 A AU 3308901 A AU 3462401 A WO 0154506 A1 WO 0154503 A1 WO 0154508 A1 WO 0154504 A1 WO 0154505 A1 WO 0154507 A1 WO 0154498 A1 US 2001049373 A1 US 2002002171 A1 US 2002016330 A1	07-08-2001 07-08-2001 07-08-2001 07-08-2001 07-08-2001 07-08-2001 07-08-2001 02-08-2001 02-08-2001 02-08-2001 02-08-2001 02-08-2001 02-08-2001 02-08-2001 06-12-2001 03-01-2002 07-02-2002
US 3991064	A	09-11-1976	NONE	
US 2003149049	A1	07-08-2003	AU 2002357882 A1 WO 03051797 A2	30-06-2003 26-06-2003
WO 9902497	A	21-01-1999	AU 738973 B2 AU 8974398 A BR 9811685 A CA 2295678 A1 CN 1262676 A WO 9902497 A2 EP 0998459 A2 HU 0004225 A2 ID 23889 A JP 3481208 B2 JP 2001509504 T NO 20000124 A NZ 502210 A PL 343865 A1 RU 2203889 C2 SK 232000 A3 TR 200000059 T2 TW 544448 B US 6656957 B1 ZA 9806137 A	04-10-2001 08-02-1999 19-09-2000 21-01-1999 09-08-2000 21-01-1999 10-05-2000 28-05-2001 25-05-2000 22-12-2003 24-07-2001 02-03-2000 26-07-2002 10-09-2001 10-05-2003 12-06-2000 21-06-2000 01-08-2003 02-12-2003 22-01-1999
WO 2004087048	A	14-10-2004	WO 2004087048 A2	14-10-2004